

Texas' Experience with NBS Performance Testing

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Originally Created As:

Texas' Experience With NBS System Readiness and Performance Tuning



Session Objectives

- Opportunity to share "lessons learned" regarding NBS deployment readiness
- ➤ Provide a (somewhat) high-level description of our deployment strategy in terms of readiness preparation and system performance
- Do all of this in terms of technical and organizational approaches we used





Session Outline

- ➤ Organizational Approach
 - Preparations
 - Training
 - Rollout
- ➤ Techie Talk
 - Server Configuration
 - Network Settings





Organizational Preparations

- ➤ High degree of executive support within and across the department organization
- ➤ Autonomy within the "NEDSS Umbrella" paradigm
- > The right tools available to do the job right
 - Purchasing authority
 - Staffing
 - Technical Capacity
 - User Needs -- TRAINING





System Training

- One-day training for all users
 - Provides overview of the system functions
 - Facilitates system familiarity
 - Required of all users before being given system access
- "Test" hardware configuration double-duties as our "training" system
- ➤ Trained users continue to use the "test" system until they are ready to be "certified"
 - Enter test scripts, reviewed by program staff at the Central Office





System Rollout

- ➤ Total of 73 eligible jurisdictions
- Currently in production with one early adopter site
- ➤ Supporting staggered transition to production





Hardware Configuration





Suggested High-End Server Specifications

Processors	2 PIII Zeon
Processor Speed	900 MHz
Processor Cache	1 MB (L3)
Bus Speed	100 MHz
RAM	4 GB
Storage	6x36 GB
Storage arch	RAID-0 or RAID-5
Slots	4 PCI
CD-R/W	16/10/24
Backup/Restore	Single DAT drive
Network I/O Card	2 10/100 Ethernet cards



Texas High-End Server Specifications

Processors	4 PIII Zeon
Processor Speed	3.6 GHz
Processor Cache	1 MB (L3)
Bus Speed	533 MHz
RAM	8 GB
Storage	6x73 GB 15K RPM
Storage arch	RAID-5 or RAID-10
Slots	4 PCI
CD-R/W	16/10/24
Backup/Restore	Single DAT drive
Network I/O Card	4 10/100/1000 Ethernet cards





NBS Implementation Server Configuration

- Web Redirect
- LDAP, Messaging, Application, Report
- ➤ Database







Dell PE 6600 Database Server



Texas Server Configuration

- **>** Utility
- > LDAP
- Messaging
- > Application
- > Report
- ➤ Database

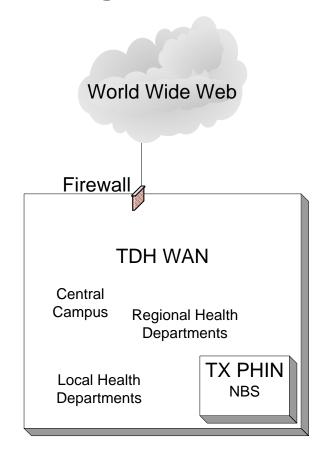


Dell PE 6600 Database Server



Texas Network Configuration

- ➤ Web hosted intranet application built with an 'internet' purview
 - Increased security
 - Decreased network traffic
- All local and regional users reside with the enterprise wide-areanetwork (WAN)





Texas Network Configuration (cont)

- Partnership with TX HAN for a PHIN standard package
 - Single sign-on through the Health Alert Network Portal
 - Consistent 2 factor authentication





Ongoing Next Steps

- ➤ Operating Systems
- Configuration Setting Tweaking
- > Redundancy/Clustering
- ➤ Storage Area Networks (SANs)





Questions?

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